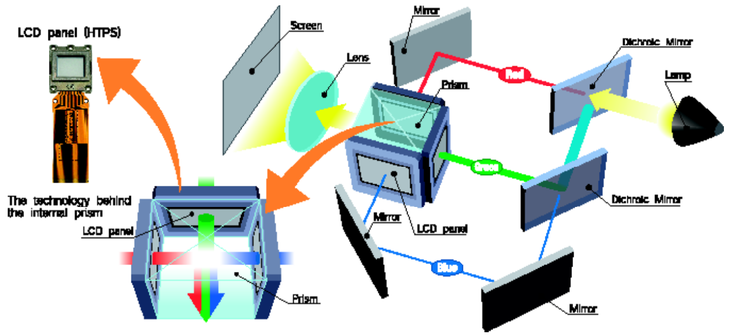
EPSON 3LCD TECHNOLOGY – FOR BRIGHT, FAITHFUL COLOURS

3LCD projectors offer brighter and more accurate colours as they produce different shades and hues by filtering, then mixing beams of the three primary colours (red, green and blue).

In a 3LCD projector, white light is first split into the three beams of primary colours. Each beam is then filtered through its own LCD that will give each individual pixel of the image its exact brightness for each colour. The colour beams are then perfectly recombined in a prism before being projected out as a complete image.

This compares to projectors using single-chip technology that actually project individual colours sequentially by filtering their single white light beam through a colour wheel, and then relying on human colour perception to combine the colours in the viewers' minds.

As a result, 3LCD projectors also offer greater detail, smoother gradations, no "colour breakup" effect, are easier on viewers' eyes, and consumer about 25% less power to achieve the same brightness compared to a single-chip projector using a lamp of the same wattage.



3LCD projector : RGB are projected at the same time, which makes the single composite image easy on the eyes.

- An independent test by projector review media ProjectorCentral.com in 2009 of about 800 projectors found that on average, 3LCD projectors use 25% less power than single-chip projectors.

www.3lcd.com

COLOUR LIGHT OUTPUT – TRUE COLOURS SHINING THROUGH

The Brightness Myth

Did you know that the brightness specification (in lumens) for projectors is only a measurement of its white light output?

In fact, many manufacturers artificially boost their projectors' brightness rating by increasing their white light production capability at the expense of colour brightness.

CLO to Enlighten

To help buyers make better-educated decisions, colour scientists at the U.S. government's National Institute of Standards and Technology (NIST – www.nist.gov) have developed Colour Light Output (CLO) as a specification to provide critical information on a projector's ability to deliver colour.

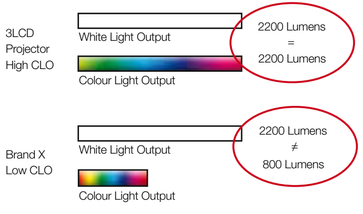
Colour Light Output is critically important because it measures the brightness of Red, Green and Blue. In a 3LCD projector, these primary colours create white when combined in the right proportions. Beautifully balanced colour is possible when Red, Green and Blue combine to produce the exact colours required. Colour Light Output provides users with an additional way to evaluate a projector and make more discerning buying decisions.

How is Colour Light Output measured?

X	X	X
X	X	X
X	X	X

Brightness (or White Light Output) measures the total amount of white light projected in lumens on a nine point grid. It does not measure colour.

Colour Light Output uses 3 sets of a nine-point grid to measure the primary colours - red, green and blue, using the same approach used to measure White Light Output in lumens.



www.colorlightoutput.com

SPECIFICATIONS
EB-421i/431i/426Wi/436Wi

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MODEL NUMBER		EB-421i	EB-431i	EB-426Wi	EB-436Wi
Projection Technology		RGB liquid crystal shutter projection system (3LCD)			
Specifications of Main Parts					
LCD	Size	0.55" with MLA (D8)		0.59" with MLA (D8)	
	Native Resolution	XGA		WXGA	
Projection Lens	Type	No Optical Zoom / Focus (Manual)			
	F-Number	1.80			
	Focal Length	6.48mm			
	Zoom Ratio	1 - 1.35 (Digital Zoom)			
	Throw Ratio	0.55 - 0.74 (Wide - Tele)		0.48 - 0.65 (Wide - Tele)	
Lamp	Type	200W UHE (E-TORL)	230W UHE (E-TORL)	200W UHE (E-TORL)	230W UHE (E-TORL)
	Life (Normal / Eco)*1	5,000 hours / 6,000 hours	4,000 hours / 6,000 hours	5,000 hours / 6,000 hours	4,000 hours / 6,000 hours
Screen Size (Projected Distance)					
Zoom: Wide		50" - 108" [0.54m - 1.22m]		53" - 116" [0.54m - 1.22m]	
Zoom: Tele		37" - 80" [0.54m - 1.22m]		40" - 86" [0.54m - 1.22m]	
Standard Size		87" screen 0.97m		93" screen 0.97m	
Brightness*2					
White Light Output (Normal / Eco)		2,500lm / 2,000lm	3,000lm / 2,100lm	2,500lm / 2,000lm	3,000lm / 2,100lm
Colour Light Output		2,500lm	3,000lm	2,500lm	3,000lm
Contrast Ratio		3,000 : 1			
Internal Speaker(s)					
Sound Output		16W (Monoaural)			
Keystone Correction					
Vertical / Horizontal		±7° / ±5°			
Connectivity					
Analogue Input	D-sub 15pin	2 (Blue)			
	Component	D-sub 15pin (Blue molding) x 2 (in common with Analog RGB connector)			
	Composite	RCA x 1 (Yellow)			
	S-Video	Mini DIN x 1			
Digital Input	HDMI	1 (HDCP supported)			
Output Terminal	D-sub 15pin	1 (Black)			
Audio Input	RCA (Red / White)	1 pair			
	Stereo Mini-jack	2			
Audio Output	Stereo Mini-jack	1			
Others	USB Type A	1 (USB Memory / ELPDC06 Document Camera)			
	USB Type B	1 (USB Display, mouse, K/B, Interactive)			
	Microphone Input	Stereo mini-jack x 1			
Control I/O	RS-232C	D-sub 9pin x 1			
Network	Wired LAN	RJ45 x 1 (10/100 Mbps)			
	Wireless	Optional (ELPAP07)			
Wireless Specifications					
	Supported Speed For Each Mode	IEEE 802.11b: 11 Mbps*3 IEEE 802.11g: 54 Mbps*3 IEEE 802.11n: 130 Mbps*3			
	Wireless LAN Security	WEP, WPA-PSK(TKIP/AES), WPA2-PSK(TKIP/AES)			
Operating Temperature		5 °C to 35 °C <41°F to 95 °F> (20% - 80% humidity, unfrozen)			
Operating Altitude		0m - 2,286m <0ft - 7,500ft> (over 1,500m / 4,921ft: with high altitude mode)			
Direct Power On/Off		Yes/Yes			
Start-up Period		Less than 7 seconds, Warm-up period: 30 seconds			
Cool Down Period		Instant Off			
Air Filter	Type	Electrostatic Filter			
	Maintenance Cycle	5,000H*4			
	Power Supply Voltage	100V - 240V AC ±10%, 50Hz / 60Hz			
Power Consumption (220-240V)					
	Lamp On (Normal / Eco)	292W / 246W	327W / 244W	292W / 246W	327W / 244W
	Stand By (Network On / Off)	6.8W / 0.39W	7.3W / 0.37W	6.8W / 0.39W	7.3W / 0.37W
Dimensions Excluding Feet (W x H x D)		345mm x 105mm x 300mm			
Weight		3.9kg	4.1kg	3.9kg	4.1kg
Fan Noise (Normal / Eco)		35dB / 28dB	37dB / 29dB	35dB / 28dB	37dB / 29dB
Interactive Specification					
Basic Specification	Technology	Infrared			
	Input Devices	Digital Pen (Easy Interactive Pen 1 and 2)			
	Connection to PC	USB, Network			
	Calibration	Auto / Manual (25points)			
	Functions	Hover, Right click, Auto Adjust Pen Area			
Computer Interactive	Driver Installation	Windows, Linux*5: No Installation required. Mac OS X: Installation required.			
	Multi-Pen Support	Yes (with Easy Interactive Tools Ver.2.10). Up to 2 types of pens. (Easy Interactive Pen 1 and 2)			
Instant Annotation (PC-Less)	Multi-Pen Support	Yes. Up to 2 types of pens. (Easy Interactive Pen 1 and 2)			
	Whiteboard Function	Yes			

Supplied accessories

Power Cable: 4.5m
USB Cable: 5m
Remote Control: Compact Type
Battery: Alkaline AA Battery x 2
Interactive Pen x 2 (EB-421i x 1)
Pen Tray (EB-431i/426Wi/436Wi)
Bundled Software: Epson Projector Software (CD-ROM)
Password Protect Sticker
User's Manual Set: CD-ROM

Optional accessories

Spare Lamp: ELPLP61 (EB-431i/436Wi)
ELPLP60 (EB-421i/426Wi)
Air Filter Set: ELPAF36
Wireless LAN Card: ELPAP07
Quick Wireless Connection USB Key: ELPAP09
Soft Carrying Case: ELPKS66
Easy Interactive Pen 1: ELPPN03A
Easy Interactive Pen 2: ELPPN03B
Easy Interactive Pen Extension: ELPPE01
Replacement Pen Tip: ELPPS01
USB Extension Cable: ELPKC31
Short Throw Wall Mount: ELPMB27

EB-421i/EB-431i/EB-426Wi/EB-436Wi

*1 Lamp life will vary depending upon mode selected, environmental conditions and usage. Lamp brightness decreases over time.

*2 Colour brightness (colour light output) and white brightness (white light output) will vary depending on usage conditions. Colour light output measured in accordance with IDMS 15-4; white light output measured in accordance with ISO 21118.

*3 Maximum speed and range is achievable when used with same enhanced mode technology. Actual data rates, features and performance may vary depending on your computer system, the environment and other factors.

*4 When used in the general office environment (the amount of floating dust: 0.04-0.2 mg/m3). Based on the Epson's in-house test results.

*5 Selected Linux distribution only

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SHORT-THROW INTERACTIVE PROJECTORS
EB-421i/431i/426Wi/436Wi

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Epson's breakthrough 3LCD technology for brilliant short-throw projection now comes with fully integrated interactive features. Regardless of space constraints, Epson short-throw projectors deliver superb performance and more engaging discussions with dual simultaneous on-screen pen input that allows live annotations to be saved to your connected PC or laptop.

EB-421i/431i/426Wi/436Wi

ENGINEERED FOR BUSINESS

Superb Short-Throw Performance
Its advanced short-throw lens with reduced glare and shadow interference delivers remarkably large and clear projection quality in small rooms.

Powerful Interactive Functions
Two unique interactive pens let you easily conduct interactive discussions or presentations on almost any surface, with or without a PC.

Flexible Positioning
Flexible projection modes for Wall Mount, Ceiling Mount and Desktop allow you place the projector according to your needs.

Epson's latest short-throw projectors come with proven 3LCD technology for brilliant image quality and the ability to project large screen sizes even at close range. New interactive features open the doors for more creative presentations, allowing you to engage and participate with your audience like never before.

Superb Short-Throw Performance

With Epson short-throw projectors, you don't need a big room to project a large screen for maximum impact. The short focus lens also allows you to place the projector closer to the screen, thereby greatly reducing glare and shadows cast from the presenter. The result is a more conducive and comfortable experience for everyone in the room.

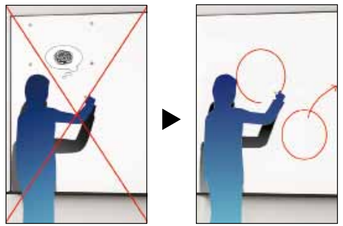
Conventional projector with shadow interference

Epson Short Throw Projector

Powerful Interactive Functions

Easy Set-Up

Projector set-up is simply plug and play, with a one-time Auto Calibration and Auto resolution adjustment. No other drivers are required except for Mac OS.



Calibration with interactive pen during setup can be skipped with the new auto calibration feature

Users can advance straight to use the interactive feature with a click of the button

PC-free Interactivity

A true Epson Original – the EB-421i, 431i, 426Wi and 436Wi projectors can be annotated without a PC connection, enabling maximum interactivity with minimal requirements. Users can quickly and easily switch between PC-connected and PC-free modes by either using an interactive pen to activate a hot spot on screen, or by activating a dedicated button on the remote control.

Dual On-screen Pen

Two persons may write on-screen at the same time by just writing over the projections with Epson's interactive pens. They work like a computer mouse and are easily gripped by children and adults, allowing natural, on-screen annotation with a variety of input sources.

Flexible Positioning

Epson short-throw projectors give you greater possibilities for all kinds of creative applications. The projector can be mounted on a wall or set on a desktop and is effective on any surface, be it a flat wall, a whiteboard or even a chalkboard. This means you can easily take advantage of underutilised classroom space by turning any existing board into an interactive projection surface.

Desktop projection

Wall mount projection

Epson Easy Interactive Tools

The bundled Easy Interactive Tool software allows you to electronically annotate documents using the pen to highlight, draw and edit contents for more compelling presentations.

Integration with MS PowerPoint

When linked to a PC, you can write annotations and diagrams directly onto projected Microsoft® PowerPoint documents and save them in their original format for future editing.

Multitask in White Board Mode

Users are fully able to use familiar PC functions such as Select, Copy, Paste, Move, Resize and other drawing tools to create and edit content on-screen. Increase productivity as the White Board mode can be minimised for users to annotate and reference to other files on their PC or laptop. Dual pen function is temporarily disabled when White Board mode is minimised.

Enhance Discussions with Powerful Audio

Impressive Built-in 16W Speaker

The integrated 16W speaker provides great audio quality for enhanced presenations. Voices are clearly audible even in large venues, which is ideally suited when teaching materials need to be recorded.

Wireless Audio Transmission

Besides direct PC connections, you can also connect this projector series wirelessly* to your LAN. The audio feed from a networked PC can then be transmitted wirelessly to the projector.

*Requires wireless network

Superb Built-in Connectivity

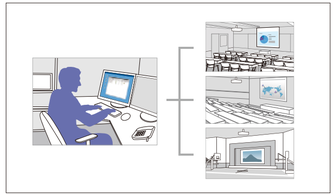
Epson short-throw projectors come with many networking features for seamless and engaging presentations.

EasyMP Network Projection

The EasyMP Network Projection enables users to configure both wired and wireless connections with high quality audio output and conduct meetings simultaneously in up to four different locations.

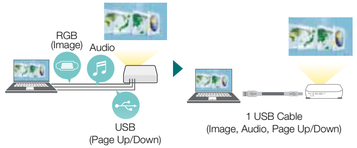
EasyMP Monitor

The EasyMP Monitor lets you efficiently monitor and configure multiple networked projectors from a single PC. You also have the ability to broadcast messages to all projectors for announcements or emergencies.



USB 3 in 1 Display

Image projection, sound transmission and mouse operation can all be conveniently carried out with a single USB connection, eliminating the hassle of separate and messy cabling.



Smarter Presentations from Mobile Devices

The iProjection application makes it possible for wireless projection from iOS and Android smart devices.* This feature supports various files and allows you to present your smartphone contents with ease. It also lets you use other touch-screen operations, such as flicking to turn pages and pinching to zoom in or out.

*iProjection, projector profile search, multi-screen display, distribution function, audio transfer, movie file transfer, interrupt connection disabling and encryption data transfer capabilities are not supported.

Extend Your Interactive Reach

Users have the option of using the Interactive Pen Extension which effectively reduces shadow interference by allowing the presenter to interact with projected elements from a greater distance.

Eco Features

- Equipped with a E-TORL lamp engineered to maximise light usage and power efficiency
- Uses just 0.37W / 0.39W of power in standby mode
- Projector optics employ lead-free lenses
- Unpainted plastic housing reduces the environment impact
- The flame retardants used in the plastic housing do not contain chlorine or bromine

Better Products for a Better Future™

For more information on Epson's environmental programme, visit **http://global.epson.com/SR/environment**.

PARTNERS IN PERFECTION

Desktop Document Camera ELPDC20
3 kg/ 6.6lbs
2 megapixels with 30fps
12x optical zoom
1080p output resolution
HDMI digital connectivity

Desktop Document Camera ELPDC11
2.2kg / 4.85lbs
5 megapixels with 30fps
10 x digital zoom
bundled with microscope adaptor

Ultra Portable Document Camera ELPDC06
Easily portable; 0.96kg / 2.11lbs
1.92 megapixels with 15fps
4 x digital zoom
USB powered